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**AMENDMENTS TO THE CLAIMS**

1. (currently amended) A non-naturally occurring detection reagent for exclusively ~~that is capable of~~ detecting the presence of 1000 or more different Drosophila transcripts, wherein each of at least 1000 of said Drosophila transcripts consists of a nucleotide sequence selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences completely complementary thereto, and RNA sequences that are equivalent thereto.
2. (original) The detection reagent of claim 1, wherein said reagent is a nucleic acid array.
3. (currently amended) The array of claim 2, wherein said array comprises ~~is comprised of~~ short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said at least 1000 Drosophila transcripts.
4. (currently amended) The array of claim 2, wherein said array comprises ~~is comprised of~~ polynucleotides from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said at least 1000 Drosophila transcripts.
5. (currently amended) A non-naturally occurring detection reagent for exclusively ~~that is capable of~~ detecting the presence of 2000 or more different Drosophila transcripts, wherein each of at least 2000 of said Drosophila transcripts consists of a nucleotide sequence selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 ... 43001, 43004, 43007, sequences completely complementary thereto, and RNA sequences that are equivalent thereto.

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6. (original) The detection reagent of claim 5, wherein said reagent is a nucleic acid array.

7. (currently amended) The array of claim 6, wherein said array comprises is ~~comprised of~~ short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.

8. (currently amended) The array of claim 6, wherein said array comprises is ~~comprised of~~ polynucleotides from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.

9. (currently amended) A non-naturally occurring detection reagent for exclusively ~~that is capable of~~ detecting the presence of 5000 or more different *Drosophila* transcripts, wherein each of at least 5000 of said *Drosophila* transcripts consists of a nucleotide sequence selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 . . . 43001, 43004, 43007, sequences completely complementary thereto, and RNA sequences that are equivalent thereto.

10. (original) The detection reagent of claim 9, wherein said reagent is a nucleic acid array.

11. (currently amended) The array of claim 10, wherein said array comprises is ~~comprised of~~ short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.

12. (currently amended) The array of claim 10, wherein said array comprises is ~~comprised of~~ polynucleotides from about 100 to about 1000 nucleotides in length,

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wherein each of said polynucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.

13. (currently amended) A non-naturally occurring detection reagent for exclusively ~~that is capable of~~ detecting the presence of 10,000 or more different *Drosophila* transcripts, wherein each of at least 10,000 of said *Drosophila* transcripts consists of a nucleotide sequence selected from the group consisting of the transcript sequences of SEQ ID NOS:2, 5, 8, 11 . . . 43001, 43004, 43007, sequences completely complementary thereto, and RNA sequences that are equivalent thereto.

14. (original) The detection reagent of claim 13, wherein said reagent is a nucleic acid array.

15. (currently amended) The array of claim 14, wherein said array comprises is ~~comprised of~~ short oligonucleotides from about 5 to about 100 nucleotides in length, wherein each of said oligonucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.

16. (currently amended) The array of claim 14 ~~15~~, wherein said array comprises is ~~comprised of~~ polynucleotides from about 100 to about 1000 nucleotides in length, wherein each of said polynucleotides is fully complementary to one of said at least 1000 *Drosophila* transcripts.